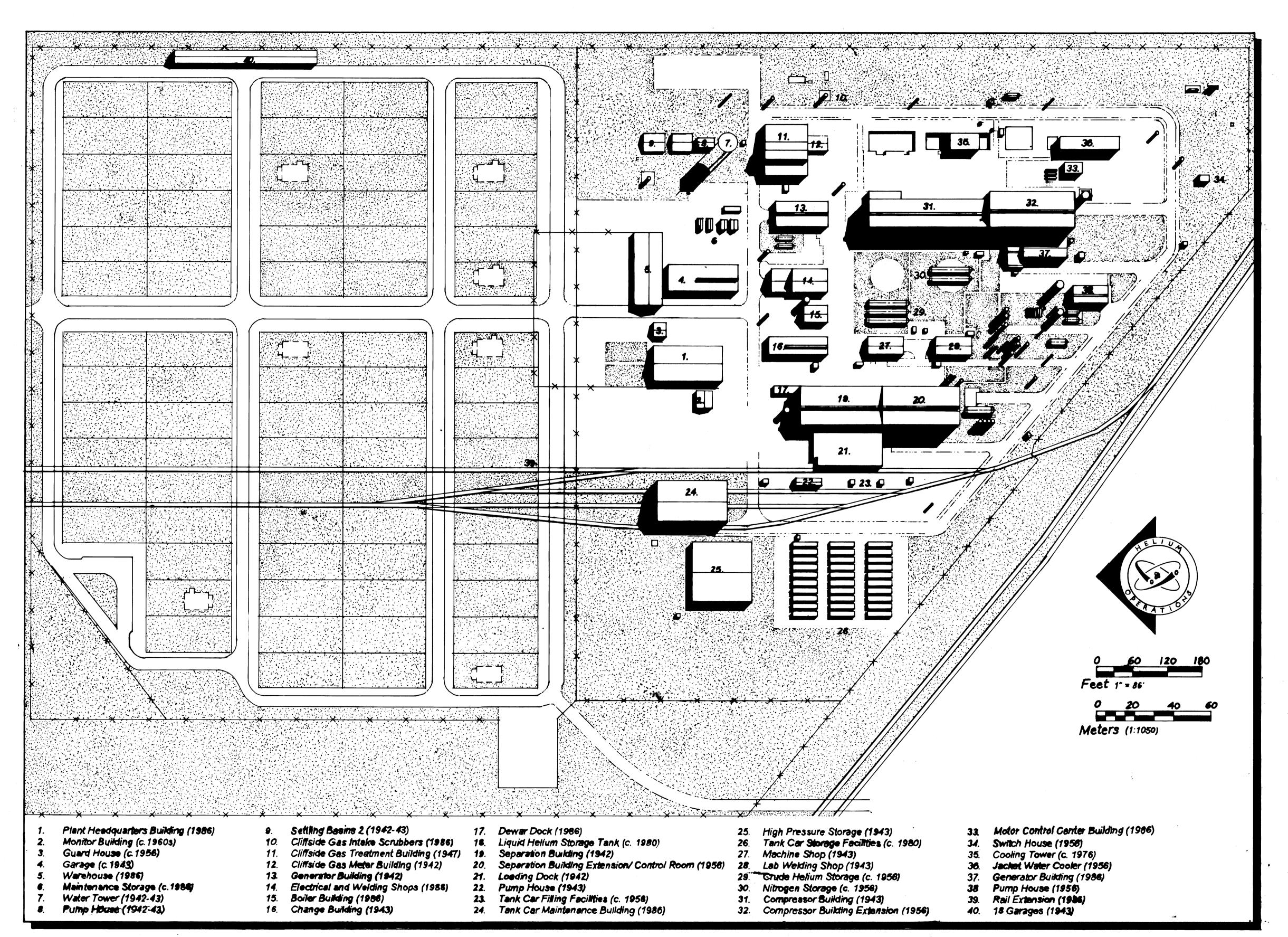
SJIE PLAN Exell Helium Plant

TRIM LINE



1979-1998: Added and Removed Facilities

The final phase of Exell's technological upgrade occurred in 1979-80. As competition from private industry increased under the criteria articulated in the Helium Conservation Act of 1960, Exell emerged as the Bureau of Mines' predominant producer. When the Keyes, Oklahoma, plant closed in 1981, Exell remained the only federal helium plant in production until privatization in 1996.

Exell upgraded its technology in 1979-80 to meet existing demands. In 1979, CTI-Cryogenics, a division of the Helix Technology Corporation, installed a cryogenic purification unit and a 500 liter-per-hour helium liquefier. The following year, the Hudson Engineering Company installed a Pressure Swing Adsorption unit (PSA), which used a molecular sieve as an absorbing medium, replacing the antiquated activated charcoal absorption system in use since the 1940s. In 1986, the bureau installed new CO2 Removal and Nitrogen-drying units.

By the mid-1990s, the Exell Helium Plant had become increasingly dependent on privately manufactured technology to keep up with current demands for helium. Congress' decision in 1996 to privatize the helium industry, effectively terminated the government's involvement in helium production.

With the downsizing of the federal government and the privatization of certain operations, the U.S. Bureau of Mines Helium Activities permanently ceased its operations in 1998. After the subsequent abolishment of the U.S. Bureau of Mines in 1996 the agency's functions at the Amarillo and Exell plants transferred to the Bureau of Land Management (BLM). In 1998, the BLM sought assistance from the National Park Service and enterest into an agreement with that agency to provide for a survey and inventory of historic and archeological properties. Both the archeological surveys and the Historic American Engineering Record (HAER) documentation project were able to mitigate the loss of these former federal properties due to their transfer of ownership.

LIUM ACTIVITIES RECORDING PROJECT